

Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

## Unit Four Test Preparation Planner

Fill in the table below to help organize your preparation for the Unit Four test!

Remember that you should be spending **TWENTY** minutes per day on studying.

Date	Item(s)	Planned Start/End Time
<b>Tuesday, 2/16</b>		
<b>Wednesday, 2/17</b>		
<b>Thursday, 2/18</b>	<b>STUDY GUIDE is DUE TODAY!</b>	
<b>Friday, 2/19</b>	<b>TEST is TODAY</b>	

### Studying Checklist

\_\_\_ **Required:** Complete the **Study Guide** in its entirety.

\_\_\_ Re-read your notes and create a study sheet of key ideas, definitions, and problem procedures.  
Create flashcards for key vocabulary and ideas.

\_\_\_ Attend **tutorial**. You must sign up in advance.

\_\_\_ REDO problems from your homeworks you did not answer correctly the first time.

\_\_\_ REDO problems from the unit's quizzes, especially the ones you got wrong.

\_\_\_ Practice squares and square roots using flashcards or link on the wikispace

Due: \_\_\_\_\_

Name: \_\_\_\_\_

## CHAPTER 4 STUDY GUIDE

Directions: Complete your work on a **separate** sheet of paper.

### LESSON 1: FACTORS VS. MULTIPLES/PRIME VS. COMPOSITE

For each number list the factors, the first ten multiples, and whether it is a prime or composite number.

1. 56                      2. 44                      3. 36                      4. 15                      5. 11

### LESSON 2: GREATEST COMMON FACTOR AND LOWEST COMMON MULTIPLE

6. Find the greatest common factor of 56 and 44

7. Find the lowest common multiple of 4 and 6

8. Sara has 16 red flowers and 24 yellow flowers. She wants to make bouquets with the same number of each color flower in each bouquet. What is the greatest number of bouquets she can make?

9. Two neon signs are turned on at the same time. Both signs blink as they are turned on. One sign blinks every 9 seconds. The other sign blinks every 15 seconds. In how many seconds will they blink together again?

10. Andrew runs every four days and cycles every five days. He did both activities today, March 3. On what date will he next do both activities?

### LESSON 3: EXPONENTS AND SQUARE ROOTS

Write each statement as a numerical expression

11. The sum of four and five, cubed                      12. Seven minus the product of five and n

13. the product of three and two squared

### LESSON 4: ORDER OF OPERATIONS

14.  $[230 - 2(5 + 4)^2] + 7 \cdot 2^3$                       15.  $15 \cdot (2^4 - 12)^2 + \sqrt{144}$                       16.  $5 \cdot [4^3 \div (2^5 - 4^2)]^2$

### LESSON 5: EVALUATING EXPRESSIONS

17.  $\frac{x^2 - (xy + 8) + 2}{xy^2}$  for  $x = 6$  and  $y = 3$                       18.  $(5x - 6)^2$  for  $x = 4$

### LESSON 6: USING FORMULAS

20. An airline charges for the price of a ticket plus a fee per bag,  $b$ , checked when a passenger travels. Alex paid \$312.50 for his airline ticket and checked 4 bags. If he uses the expression  $312.50 + 15b$ , how much did Alex pay to travel?

\* Study old homework, quizzes, and notes.  
Know your 1-25 square root facts!